

ABSTRACT

This invention relates to vaccines and methods for protecting dogs against disease
5 caused by *Bordetella bronchiseptica*. This invention also relates to combination vaccines and
methods for protecting dogs against disease or disorder caused by canine pathogens, for
example, infectious tracheobronchitis caused by *Bordetella bronchiseptica*, canine distemper
caused by canine distemper (CD) virus, infectious canine hepatitis (ICH) caused by canine
adenovirus type 1 (CAV-1), respiratory disease caused by canine adenovirus type 2 (CAV-2),
10 canine parainfluenza caused by canine parainfluenza (CPI) virus, enteritis caused by canine
coronavirus (CCV) and canine parvovirus (CPV), and leptospirosis caused by *Leptospira*
Bratislava, *Leptospira canicola*, *Leptospira grippotyphosa*, *Leptospira icterohaemorrhagiae* or
Leptospira pomona. The vaccines of the present invention include a *Bordetella bronchiseptica*
p68 antigen.

15